

## **ABSTRACT**

An endovascular heat transfer device which can have a smooth exterior surface, or a surface with ridges and grooves. The device can have a plurality of elongated, articulated segments, with each having such a surface. A flexible joint connects adjacent elongated, articulated segments. The flexible joints can be bellows or flexible tubes. An inner lumen is disposed within the heat transfer segments. The inner lumen is capable of transporting a pressurized working fluid to a distal end of the heat transfer element.